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Title: Frame selection systems and languages for medical applications

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Abstract: A frame selection system is an interactive computer system which enables the user to enter data via a CRT terminal, by using a selection device to point at items or phrases displayed on the screen. A frame is a set of choices representing the alternatives available to the user at each stage of a selection process. To illustrate the capability of such systems and languages, a pharmacy ordering system is presented. It is used to capture all the medication orders generated within the hospital and keep a patient's profile accessible and modifiable in real-time. Various reports are generated, a data base of all medications orders is retained, the inventory control is achieved and the billing information is captured automatically.

Descriptors: biomedical applications of computers; computer graphics; formal languages; information retrieval; medical information processing

Identifiers: frame programming language; context free languages; context sensitive languages; frame selection systems; medical applications; interactive computer system; CRT terminal; pharmacy ordering system; patient's profile; real time; data base; inventory control

Class Codes: C4210 (Formal logic); C5540 (Terminals and graphic displays); C7140 (Medical administration); C7250 (Information storage and retrieval); C7330 (Biology and medicine)